5-3 Practice

Form K

Slope-Intercept Form

Find the slope and *y*-intercept of the graph of each equation.

1. $y = -2x + 7$

2. $y = 6x + 11$

3. $y = -7x - 8$

4. $y = -2.5x + 3.2$

5. $y = -9$

6. $y = \frac{1}{4}x - \frac{2}{7}$

Write an equation of a line with the given slope *m* and *y*-intercept *b*.

7. $m = -5$, $b = -6$

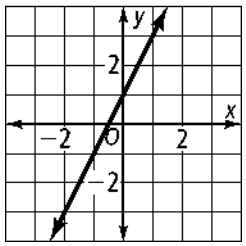
8. $m = 1$, $b = -4$

9. $m = 0.4$, $b = -9$

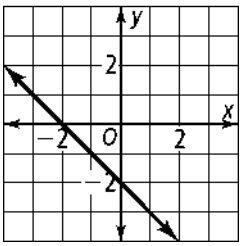
10. $m = 0$, $b = 3$

Write an equation in slope-intercept form of each line.

11.



12.



Write an equation in slope-intercept form of the line that passes through the given points.

13. (–1, 2) and (0, 0)

14. (–2, 9) and (1, 6)

15. (12, 10) and (16, 8)

16. (–4, –1) and (–8, 7)

Graph each equation.

17. $y = x - 2$

18. $y = 3x + 1$

19. $y = -x - 1$

20. $y = -3x - 2$

21. $y = \frac{1}{2}x + 2$

22. $y = -\frac{4}{5}x - 5$

23. A car is traveling at 45 mi/h. Write an equation that models the total distance d traveled after h hours. What is the graph of the equation?